

SAWA3005 Test Listing.ST25
SEQUENCE LISTING

<110> Sawadaishi, Kazuyuki

<120> Recombinant Antibody Recognizing Dioxin and Gene Encoding Said Antibody

<130> SAWA3005/ESS

<140> 10/550,951

<141> 2005-09-28

<150> PCT/JP2004/004355

<151> 2004-03-26

<150> JP 2003-091663

<151> 2003-03-28

<160> 67

<170> PatentIn version 3.3

<210> 1

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<212> DNA

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<223> DNA encoding polypeptide of H-chain variable region of monoclonal antibody Dx 3860

<220>

<221> exon

<222> (1)..(342)

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Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
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Ala	Met	Ser	Trp	Val	Arg	Gln	Thr	Pro	Glu	Lys	Arg	Leu	Glu	Trp	Val	
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gca	tcc	ttt	agt	aat	ggt	ggt	atc	acc	tac	tat	cca	gac	agt	gtg	aag	192
Ala	Ser	Phe	Ser	Asn	Gly	Gly	Ile	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	Lys	
			50			55					60					
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Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Arg	Asn	Ile	Leu	Tyr	Leu	
65					70				75					80		
caa	atg	acc	agt	ctg	agg	tct	gag	gac	acg	gcc	att	tat	tac	tgt	gca	288
Gln	Met	Thr	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys	Ala	
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aga	ggc	tat	ggt	cct	gct	tac	tgg	ggc	caa	ggg	act	ctg	gtc	act	gtc	336
Arg	Gly	Tyr	Gly	Pro	Ala	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	
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Ser	Ala															

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 aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act ctt 96
 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu
 20 25 30
 aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act ggt 144
 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 35 40 45
 cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc 192
 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
 50 55 60
 tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca 240
 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 65 70 75 80
 cag act gag gat gag gca ata tat ttc tgt gct cta tgg tac agc aac 288
 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
 85 90 95
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 tct ctg tct ctc acc tgt tct gtc act ggc tac tcc atc acc agt ggc 96
 Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly
 20 25 30

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ttt tac tgg aac tgg atc cgg cag ttt cca gga aac aaa ctg gaa tgg Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp 35 40 45	144
atg ggc tac ata agc tac gac ggt tac aat aat tac aac cca ttt ctc Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu 50 55 60	192
aaa aat cga gtg tcc atc act cgt gac aca tct gag aac cag ttt ttc Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe 65 70 75 80	240
ctg aag ttg cat tct gtg act act gag gac aca gct aca tat tac tgt Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys 85 90 95	288
gta agt tac ggt agt cgg agg gga gtt acc tac tgg ggc caa ggc acc Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr 100 105 110	336
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cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe 50 55 60	192
tct ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala 65 70 75 80	240
cag act gag gat gag gcg ata tat ttc tgt gct ctt tgg tac aac acc Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr 85 90 95	288
cat ttg gtg ttc ggt gga gga acc aga ctg act gtc cta ggc His Leu Val Phe Gly Gly Gly Thr Arg Thr Val Leu Gly 100 105 110	330

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<210> 5
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 <212> PRT
 <213> Unknown

<220>
 <223> polypeptide of H-chain variable region of monoclonal antibody Dx
 3860

<400> 5

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Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 35 40 45

Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 65 70 75 80

Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
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Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110

Ser Ala

<210> 6
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 3860

<400> 6

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Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu
 20 25 30

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 35 40 45

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Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
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His Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

<210> 7

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<223> Polypeptide of H-chain variable region of monoclonal antibody Dx
3150

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20 25 30

Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
35 40 45

Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu
50 55 60

Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe
65 70 75 80

Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr
100 105 110

Thr Leu Thr Val Ser Ser
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<210> 8

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<212> PRT

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<223> Polypeptide of L-chain variable region of monoclonal antibody Dx
3150

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Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
20 25 30

Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
35 40 45

Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
50 55 60

Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
65 70 75 80

Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr
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His Leu Val Phe Gly Gly Gly Thr Arg Leu Thr Val Leu Gly
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<210> 9

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<223> Peptide of CDR 1 in L-chain variable region of monoclonal antibody Dx 3860

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<223> Peptide of CDR 3 in L-chain variable region of monoclonal antibody Dx 3860

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<223> Peptide of CDR 2 in H-chain variable region of monoclonal antibody Dx 3150

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<210> 18
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33

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36

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1 5 15

48

tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt tcc tat
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

96

gcc atg tct tgg gtt cgc cag act cca gag aag agg ctg gag tgg gtc
Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

144

gca tcc ttt agt aat ggt ggt atc acc tac tat cca gac agt gtg aag
Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

192

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Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

240

caa atg acc agt ctg agg tct gag gac acg gcc att tat tac tgt gca
Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

288

aga ggc tat ggt cct gct tac tgg ggc caa ggt acc ctg gtc act gtc
Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

336

tct tcc gga gga ggc ggt tca ggc gga ggt ggc tct ggc ggt ggc gga
Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
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120 125

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	ctt aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act Leu Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr 165 170 175	528
	ggg cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga Gly Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg 180 185 190	576
	ttc tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly 195 200 205	624
	gca cag act gag gat gag gca ata tat ttc tgt gct cta tgg tac agc Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser 210 215 220	672
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<400>	57	
	cag gct gtt gtg act cag gaa tct gca ctc acc aca tca cct ggt gaa Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu 1 5 10 15	48
	aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act ctt Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu 20 25 30	96
	aac tat gcc aac tgg gtc caa gaa aaa cca gat cat tta ttc act ggt Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly 35 40 45	144
	cta ata ggt aat acc aac aac cga gct cca ggt gtt cct gcc aga ttc Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe 50 55 60	192
	tca ggc tcc ctg att gga gac aag gct gcc ctc acc atc aca ggg gca Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala 65 70 75 80	240
	cag act gag gat gag gca ata tat ttc tgt gct cta tgg tac agc aac Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn 85 90 95	288

SAWA3005 Test Listing.ST25

cat ttg gtg ttc ggt gga gga acc aaa ctg act gtc cta ggc tcc gga His Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ser Gly 100 105 110	336
gga ggc ggt tca ggc gga ggt ggc tct ggc ggt ggc gga tcc gaa gtg Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Glu Val 115 120 125	384
aag ctg gtg gag tcc ggg gga ggc tta gtg aag cct gga ggg tcc ctg Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser Leu 130 135 140	432
aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt tcc tat gcc atg Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met 145 150 155 160	480
tct tgg gtt cgc cag act cca gag aag agg ctg gag tgg gtc gca tcc Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser 165 170 175	528
ttt agt aat ggt ggt atc acc tac tat cca gac agt gtg aag ggc cga Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys Gly Arg 180 185 190	576
ttc acc atc tcc aga gat aat gcc agg aac atc ctg tac ctg caa atg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu Gln Met 195 200 205	624
acc agt ctg agg tct gag gac acg gcc att tat tac tgt gca aga ggc Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Gly 210 215 220	672
tat ggt cct gct tac tgg ggc caa ggg act ctg gtc act gtc tct gca Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala 225 230 235 240	720
<210> 58	
<211> 729	
<212> DNA	
<213> Unknown	
<220>	
<223> scFv fragment Dx3150HL	
<220>	
<221> exon	
<222> (1)..(729)	
<400> 58	
gat gta cag ctt cag gag tca gga cct ggc ctc gtg aaa cct tct cag Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln 1 5 10 15	48
tct ctg tct ctc acc tgt tct gtc act ggc tac tcc atc acc agt ggc Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly 20 25 30	96
ttt tac tgg aac tgg att cgg cag ttt cca gga aac aaa ctg gaa tgg Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp 35 40 45	144
atg ggc tac ata agc tac gac ggt tac aat aat tac aac cca ttt ctc Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu 50 55 60	192

SAWA3005 Test Listing.ST25

aaa aat cga gtg tcc atc act cgt gac aca tct gag aac cag ttt ttc	240
Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe	
65 70 75 80	
ctg aag ttg cat tct gtg act act gag gac aca gct aca tat tac tgt	288
Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys	
85 90 95	
gta agt tac ggt agt cgg agg gga gtt acc tac tgg ggc caa ggt acc	336
Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr	
100 105 110	
act ctc aca gtc tcc tcc gga gga ggc ggt tca ggc gga ggt ggc tct	384
Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser	
115 120 125	
ggc ggt ggc gga tcc cag gct gtt gtg act cag gaa tct gca ctc acc	432
Gly Gly Gly Gly Ser Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr	
130 135 140	
aca tca cct ggt gaa aca gtc aca ctc act tgt cgc tca agt act ggg	480
Thr Ser Pro Gly Glu Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly	
145 150 155 160	
gct gtt aca act agt aac tat gcc aac tgg gtc caa gaa aaa cca gat	528
Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp	
165 170 175	
cat tta ttc act ggt cta ata ggt aat acc aac aac cga gct cca ggt	576
His Leu Phe Thr Gly Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly	
180 185 190	
gtt cct gcc aga ttc tct ggc tcc ctg att gga gac aag gct gcc ctc	624
Val Pro Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu	
195 200 205	
acc atc aca ggg gca cag act gag gat gag gcg ata tat ttc tgt gct	672
Thr Ile Thr Gly Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala	
210 215 220	
ctt tgg tac aac acc cat ttg gtg ttc ggt gga gga acc aga ctg act	720
Leu Trp Tyr Asn Thr His Leu Val Phe Gly Gly Gly Thr Arg Leu Thr	
225 230 235 240	
gtc cta ggc	729
Val Leu Gly	

<210> 59
 <211> 732
 <212> DNA
 <213> Unknown

<220>
 <223> scFv fragment Dx3150LH

<220>
 <221> exon
 <222> (1)..(732)

<400> 59	48
cag gct gtt gtg act cag gaa tct gca ctc acc aca tca cct ggt gaa	
Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu	
1 5 10 15	

aca gtc aca ctc act tgt cgc tca agt act ggg gct gtt aca act agt	96
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SAWA3005 Test Listing.ST25

Thr	Val	Thr	Leu	Thr	Cys	Arg	Ser	Ser	Thr	Gly	Ala	Val	Thr	Thr	Ser	
			20					25							30	
aac	tat	gcc	aac	tgg	gtc	caa	gaa	aaa	cca	gat	cat	tta	ttc	act	ggt	144
Asn	Tyr	Ala	Asn	Trp	Val	Gln	Glu	Lys	Pro	Asp	His	Leu	Phe	Thr	Gly	
		35					40					45				
cta	ata	ggt	aat	acc	aac	aac	cga	gct	cca	ggt	gtt	cct	gcc	aga	ttc	192
Leu	Ile	Gly	Asn	Thr	Asn	Asn	Arg	Ala	Pro	Gly	Val	Pro	Ala	Arg	Phe	
		50				55					60					
tct	ggc	tcc	ctg	att	gga	gac	aag	gct	gcc	ctc	acc	atc	aca	ggg	gca	240
Ser	Gly	Ser	Leu	Ile	Gly	Asp	Lys	Ala	Ala	Leu	Thr	Ile	Thr	Gly	Ala	
65					70					75					80	
cag	act	gag	gat	gag	gcg	ata	tat	ttc	tgt	gct	ctt	tgg	tac	aac	acc	288
Gln	Thr	Glu	Asp	Glu	Ala	Ile	Tyr	Phe	Cys	Ala	Leu	Trp	Tyr	Asn	Thr	
				85					90					95		
cat	ttg	gtg	ttc	ggt	gga	gga	acc	aga	ctg	act	gtc	cta	ggc	tcc	gga	336
His	Leu	Val	Phe	Gly	Gly	Gly	Thr	Arg	Leu	Thr	Val	Leu	Gly	Ser	Gly	
			100					105					110			
gga	ggc	ggt	tca	ggc	gga	ggt	ggc	tct	ggc	ggt	ggc	gga	tcc	gat	gta	384
Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Asp	Val	
			115				120					125				
cag	ctt	cag	gag	tca	gga	cct	ggc	ctc	gtg	aaa	cct	tct	cag	tct	ctg	432
Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys	Pro	Ser	Gln	Ser	Leu	
			130			135					140					
tct	ctc	acc	tgt	tct	gtc	act	ggc	tac	tcc	atc	acc	agt	ggc	ttt	tac	480
Ser	Leu	Thr	Cys	Ser	Val	Thr	Gly	Tyr	Ser	Ile	Thr	Ser	Gly	Phe	Tyr	
145					150					155					160	
tgg	aac	tgg	att	cgg	cag	ttt	cca	gga	aac	aaa	ctg	gaa	tgg	atg	ggc	528
Trp	Asn	Trp	Ile	Arg	Gln	Phe	Pro	Gly	Asn	Lys	Leu	Glu	Trp	Met	Gly	
				165					170					175		
tac	ata	agc	tac	gac	ggt	tac	aat	aat	tac	aac	cca	ttt	ctc	aaa	aat	576
Tyr	Ile	Ser	Tyr	Asp	Gly	Tyr	Asn	Asn	Tyr	Asn	Pro	Phe	Leu	Lys	Asn	
			180					185					190			
cga	gtg	tcc	atc	act	cgt	gac	aca	tct	gag	aac	cag	ttt	ttc	ctg	aag	624
Arg	Val	Ser	Ile	Thr	Arg	Asp	Thr	Ser	Glu	Asn	Gln	Phe	Phe	Leu	Lys	
			195				200					205				
ttg	cat	tct	gtg	act	act	gag	gac	aca	gct	aca	tat	tac	tgt	gta	agt	672
Leu	His	Ser	Val	Thr	Thr	Glu	Asp	Thr	Ala	Thr	Tyr	Tyr	Cys	Val	Ser	
			210			215					220					
tac	ggt	agt	cgg	agg	gga	gtt	acc	tac	tgg	ggc	caa	ggc	acc	act	ctc	720
Tyr	Gly	Ser	Arg	Arg	Gly	Val	Thr	Tyr	Trp	Gly	Gln	Gly	Thr	Thr	Leu	
225					230					235					240	
aca	gtc	tcc	tca													732
Thr	Val	Ser	Ser													

<210> 60
 <211> 239
 <212> PRT
 <213> Unknown

<220>
 <223> Polypeptide encoded by scFv fragment Dx3860HL

SAWA3005 Test Listing.ST25

<400> 60

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15
 Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 35 40 45
 Ala Ser Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
 65 70 75 80
 Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95
 Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110
 Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
 115 120 125
 Ser Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly
 130 135 140
 Glu Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr
 145 150 155 160
 Leu Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr
 165 170 175
 Gly Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg
 180 185 190
 Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly
 195 200 205
 Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser
 210 215 220
 Asn His Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
 225 230 235

<210> 61
 <211> 240
 <212> PRT
 <213> Unknown

<220>

SAWA3005 Test Listing.ST25

<223> Polypeptide encoded by scFv fragment Dx3860LH

<400> 61

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Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
1      5      10      15
Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Leu
20      25      30
Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
35      40      45
Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
50      55      60
Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
65      70      75      80
Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Ser Asn
85      90      95
His Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Ser Gly
100     105     110
Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Glu Val
115     120     125
Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly Ser Leu
130     135     140
Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Ala Met
145     150     155     160
Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser
165     170     175
Phe Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys Gly Arg
180     185     190
Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu Gln Met
195     200     205
Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Gly
210     215     220
Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
225     230     235     240

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<210> 62
 <211> 243
 <212> PRT
 <213> Unknown

SAWA3005 Test Listing.ST25

<220>

<223> Polypeptide encoded by scFv fragment Dx3150HL

<400> 62

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15

Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly
20 25 30

Phe Tyr Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp
35 40 45

Met Gly Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu
50 55 60

Lys Asn Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe
65 70 75 80

Leu Lys Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
85 90 95

Val Ser Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr
100 105 110

Thr Leu Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser
115 120 125

Gly Gly Gly Gly Ser Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr
130 135 140

Thr Ser Pro Gly Glu Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly
145 150 155 160

Ala Val Thr Thr Ser Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp
165 170 175

His Leu Phe Thr Gly Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly
180 185 190

Val Pro Ala Arg Phe Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu
195 200 205

Thr Ile Thr Gly Ala Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala
210 215 220

Leu Trp Tyr Asn Thr His Leu Val Phe Gly Gly Gly Thr Arg Leu Thr
225 230 235 240

Val Leu Gly

SAWA3005 Test Listing.ST25

<210> 63
 <211> 244
 <212> PRT
 <213> Unknown

<220>
 <223> Polypeptide encoded by scFv fragment Dx3150LH

<400> 63

Gln Ala Val Val Thr Gln Glu Ser Ala Leu Thr Thr Ser Pro Gly Glu
 1 5 10 15
 Thr Val Thr Leu Thr Cys Arg Ser Ser Thr Gly Ala Val Thr Thr Ser
 20 25 30
 Asn Tyr Ala Asn Trp Val Gln Glu Lys Pro Asp His Leu Phe Thr Gly
 35 40 45
 Leu Ile Gly Asn Thr Asn Asn Arg Ala Pro Gly Val Pro Ala Arg Phe
 50 55 60
 Ser Gly Ser Leu Ile Gly Asp Lys Ala Ala Leu Thr Ile Thr Gly Ala
 65 70 75 80
 Gln Thr Glu Asp Glu Ala Ile Tyr Phe Cys Ala Leu Trp Tyr Asn Thr
 85 90 95
 His Leu Val Phe Gly Gly Gly Thr Arg Leu Thr Val Leu Gly Ser Gly
 100 105 110
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val
 115 120 125
 Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln Ser Leu
 130 135 140
 Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser Gly Phe Tyr
 145 150 155 160
 Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp Met Gly
 165 170 175
 Tyr Ile Ser Tyr Asp Gly Tyr Asn Asn Tyr Asn Pro Phe Leu Lys Asn
 180 185 190
 Arg Val Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe Phe Leu Lys
 195 200 205
 Leu His Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Val Ser
 210 215 220

SAWA3005 Test Listing.ST25

Tyr Gly Ser Arg Arg Gly Val Thr Tyr Trp Gly Gln Gly Thr Thr Leu
225 230 235 240

Thr Val Ser Ser

<210> 64
<211> 114
<212> PRT
<213> Unknown

<220>
<223> Polypeptide of VH-chain variant (HL-M#5) of monoclonal antibody
Dx 3860

<400> 64

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ser

<210> 65
<211> 114
<212> PRT
<213> Unknown

<220>
<223> Polypeptide of VH-chain variant (LH-M#1) of monoclonal antibody
Dx 3860

<400> 65

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Arg Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

SAWA3005 Test Listing.ST25

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Leu Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110

Ser Ala

<210> 66
<211> 114
<212> PRT
<213> Unknown

<220>
<223> Polypeptide of VH-chain variant (LH-M#2) of monoclonal antibody
dx 3860

<400> 66

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Val Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
65 70 75 80

Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
85 90 95

Arg Gly Tyr Gly Pro Ala Tyr Trp Gly His Gly Thr Leu Val Thr Val
100 105 110

Ser Ala

SAWA3005 Test Listing.ST25

<210> 67
 <211> 114
 <212> PRT
 <213> Unknown

<220>
 <223> Polypeptide of VH-chain variant (LH-M#3) of nonoclonal antibody
 DX 3860

<400> 67

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
 1 5 10 15

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
 35 40 45

Ala Ser Leu Ser Asn Gly Gly Ile Thr Tyr Tyr Pro Asp Ser Val Lys
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Val Leu Tyr Leu
 65 70 75 80

Gln Met Thr Ser Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys Ala
 85 90 95

Arg Gly Tyr Gly Pro Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
 100 105 110

Ser Ala